

# NCSP Website Enhancements



**Lori Scott**  
NCSP Management Team

# ***FY 2015 & 2016 Website Enhancements***

<https://ncsp.llnl.gov>

Courtesy:

Lawrence Livermore National Laboratory (LLNL)

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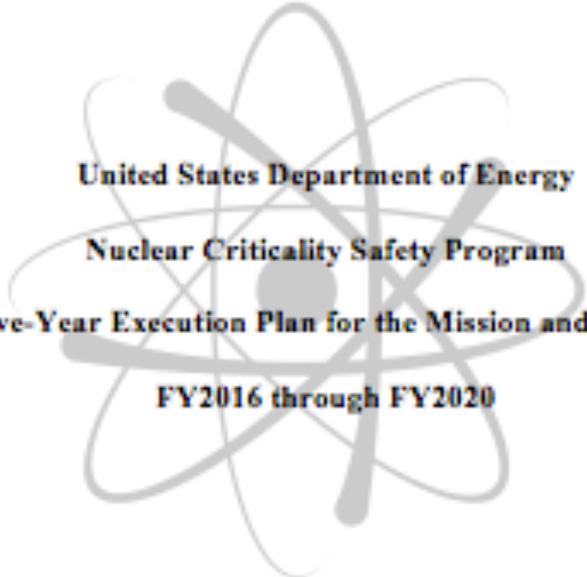
Chuck Lee

## ***FY 2015 & 2016 Website Enhancements***

- **Added** NCSP Foreign Trip Reports for FY13-15
- **Added** Non-NCSP Work for Others (WFO) Products data for work done at NCERC for FY13-15
- **Added** Memorials for our friends and colleagues
- **Added** New information page for the annual NCSP TPR
- **Coming soon** – New searchable database for archived documents
- **Coming soon** – Merging current databases into one retrieval system
- **Coming soon** – ‘Face lift’, new look and modernization tools for our NCSP website

# ***US DOE NCSP Five-Year Plan(5YP)***

## ***Appendix C: Projected Foreign Travel***



United States Department of Energy  
Nuclear Criticality Safety Program  
Five-Year Execution Plan for the Mission and Vision  
FY2016 through FY2020



# 5YP Appendix C: Projected Foreign Travel

| Destination*                         | Date*  | Lab*                        | Count* | Costs (\$)* | One Sentence Description*  | Task*                  | Milestone*  | Justification*   |
|--------------------------------------|--------|-----------------------------|--------|-------------|--|------------------------|---|--|
| OECD/NEA<br>Paris, France            | Apr-16 | LANL<br>LLNL<br>ORNL<br>SNL | 9      | 45,000      | Present/publish NCSP 4CSBEP - evaluations of annual 4CSBEP - Technical Meeting (Favre, Hanna - J, <del>Hutchinson</del> , Hutchison, Keefer, Kim, Miller, Sanchez) | LLNL-IPD1              | Provide brief trip - summary report to - NCSP Manager (Q3). | Present/publish NCSP 4CSBEP - evaluations of annual 4CSBEP Technical - Meeting.  |
| AWE<br><del>International</del> - UK | May-16 | LLNL                        | 3      | 15,000      | Coordinate International - Collaboration Efforts ( <del>Hutchinson</del> , Hickman, <del>Hutchinson</del> )  | LLNL-all               | Provide brief trip - summary report to - NCSP Manager (Q3). | Allows LLNL to discuss International - Collaboration efforts that must be done in - person (i.e., determining material or - equipment that needs transporting, etc.).  |
| OECD/NEA<br>Paris, France            | Sep-16 | LLNL                        | 2      | 10,000      | Participate in WPNC annual - meeting ( <del>Wolke</del> , <del>Seaborg</del> )   | LLNL-AM1               | Provide brief trip - summary report to - NCSP Manager (Q4). | Participate in WPNC governance and - expert group meetings on MC methods - and excursion analyses.   |
| Bruges, - Belgium                    | Sep-16 | LLNL<br>NCSU                | 2      | 10,000      | Participate in ND2016 bi-annual - meeting ( <del>Wolke</del> , <del>Hutchinson</del> )   | LLNL-ND1               | Provide brief trip - summary report to - NCSP Manager (Q4). | Present/publish results of LLNL-ND1 new - thermal scattering laws.   |
| Psolo,<br>UK                         | May-16 | LLNL                        | 2      | 10,000      | ANSWERS Seminar (Lee, - <del>Seaborg</del> )   | LLNL-AM1               | Provide brief trip - summary report to - NCSP Manager (Q3). | Attend the AMEC 2015 ANSWERS - Seminar devoted to radiation shielding, - reactor physics and nuclear criticality - safety software applications, V&V and - R&D.  |
| OECD/NEA<br>Paris, France            | May-16 | RPI                         | 1      | 5,000       | Participate in WPEC annual - meeting ( <del>Damon</del> , Liu)   | RPI-ND1                | Provide brief trip - summary report to - NCSP Manager (Q3). | As US Measurements Chair, participate in - WPEC annual meeting to present - NCSP/RPI nuclear data measurement - work ( <del>Damon</del> ).   |
| Bruges, - Belgium                    | Sep-16 | RPI                         | 1      | 5,000       | Participate in ND2016 bi-annual - meeting ( <del>Damon</del> )   | RPI-ND2                | Provide brief trip - summary report to - NCSP Manager (Q4). | Participate in the WINS nuclear scattering - workshop to present NCSP/RPI thermal - scattering work to address thermal - moderator data needs for criticality safety - applications.   |
| Bruges, - Belgium                    | Sep-16 | LANL                        | 3      | 12,000      | Participate in ND2016 bi-annual - meeting ( <del>Seaborg</del> , Hale, White)  | LANL-ND1               | Provide brief trip - summary report to - NCSP Manager (Q4). | Present/publish results of LANL-ND1 - work performed in 2015.  |
| OECD/NEA<br>Paris, France            | May-16 | LANL                        | 3      | 12,000      | Participate in WPEC annual - meeting ( <del>Kobler</del> , <del>Goolie</del> , White)  | LANL - AM2, - LANL-ND1 | Provide brief trip - summary report to - NCSP Manager (Q3). | Will include emphasis on CIELO Project - and GND Project. -CIELO related work - includes international evaluation of - important isotopes and criticality data - testing of new cross sections that will - subsequently appear in a next generation - ENDF library. GND related work ensures - that the needs of NCSP are met by the new - nuclear data format and relates to the next - generation NJOY code, NJOY21. |

# 5YP Appendix C: Projected Foreign Travel

|                               |                |      |   |        |  |                    |   |   |
|-------------------------------|----------------|------|---|--------|--|--------------------|---|---|
| Paris, France                 | May-16         | LANL | 1 | 3,000  | Participate in annual OECD/NEA Working Party on Nuclear Criticality Safety and various Expert Groups (Brown)   | LANL-AM1           | Provide brief trip summary report to NCSP Manager (Q3). | NCSP Monte Carlo people from LANL & ORNL traditionally participate in these meetings. Benefits V&V, methods, data, etc. Forrest specifically is the founder & participant in the Expert Group for Advanced Monte Carlo Techniques.  |
| Vienna, Austria               | TBD            | LANL | 2 | 3,000  | IAEA Coordinated Research Project meetings on Radiation Damage and Testing/Validating a new <del>Uncertainty</del> Cross-Section Library (Kobler, Gossia)  | LANL-AM2, LANL-ND1 | Provide brief trip summary report to NCSP Manager (Q4). | (Cost is salary only as the IAEA typically pays participant transportation, lodging, and per diem expenses) <del>++</del><br>The Radiation Damage CRP is expected to yield improved/updated NJOY processing methods. The CRP focused on <del>Uncertainty</del> Cross-Section Library is expected to yield updated data for selected ENDF/B evaluations. |
| IRSN Paris, France            | TBD            | LANL | 2 | 10,000 | MCNP Criticality safety Class at IRSN (Brown, Ball)  | LANL-AM1           | Provide brief trip summary report to NCSP Manager (Q4). | Has been discussed previously, but never funded and finalized. Such a class would benefit both LANL and IRSN.   |
| IRMM <del>Melle</del> Belgium | TBD -- 3 trips | ORNL | 1 | 45,000 | Perform resonance region nuclear data measurements using GELINA facility at IRMM in accordance with Appendix B of the Five-Year Plan (Gobes)   | ORNL-ND1           | Provide brief trip summary report to NCSP Manager (Q4). | Continues cross-section measurements and the production of new cross-section evaluations with covariance data for U.S.  |
| India                         | Jun-16         | ORNL | 1 | 5,000  | Participate in ISO Standards meeting (Bowen)   | NCSP-TS7           | Provide brief trip summary report to NCSP Manager (Q4). | Participate in ISO Standards meeting (ISO TC85/SC5/WG8) on nuclear criticality safety to ensure US NCSP interests are represented in the international standards development and as succession planning for replacement of Hopper participation (Bowen).  |
| IRSN Paris, France            | TBD -- 3 trips | ORNL | 1 | 45,000 | Perform nuclear data evaluation and testing work with IRSN (Baptist and Gobes)   | ORNL-ND1           | Provide brief trip summary report to NCSP Manager (Q4). | Continues cross-section evaluation and testing work with IRSN to provide new cross-section evaluations with covariance data for U.S.  |
| OECD/NEA Paris, France        | May-16         | ORNL | 1 | 5,000  | Participate in WPEC annual meeting as Chair of ENDF Formats Committee, coordinate international nuclear data collaborations for the NCSP, and present NCSP/ORNL nuclear data evaluation work (Datta) | ORNL-ND1           | Provide brief trip summary report to NCSP Manager (Q3). | Exchange of information with international nuclear data community to improve NCSP nuclear data evaluations and cultivate new collaborations to support future NCSP nuclear data evaluation work tasks. Also, includes Interim NDAG Chair participation in WPEC meeting.   |
| OECD/NEA Paris, France        | May-16         | ORNL | 1 | 5,000  | Participate in WPNCs (Rearden)   | ORNL-AM2           | Provide brief trip summary report to NCSP Manager (Q3). | Continues NCSP leadership in S/U analysis methods and fosters continued collaboration with international partners to test and improve NCSP S/U analysis capabilities for supporting criticality safety applications.  |



# Foreign Travel Trip Reports (FY2015)

| Destination   | Date   | Labs                        | One Sentence Description  | Justification   |
|---|--------|-----------------------------|---|---|
| OECD NEA<br>Paris, France                             | May-15 | LANL<br>LLNL<br>ORNL<br>SNL | Present/publish NCSP ICSBEP evaluations at annual ICSBEP Technical Meeting (Harms, Heinrichs, Lee, Miller, Kim)                         | Present/publish NCSP ICSBEP evaluations at annual ICSBEP Technical Meeting.   |
| OECD NEA<br>Paris, France<br><br>MEETING<br>CANCELLED | Sep-15 | LLNL                        | Participate in the Expert Group meeting on Excursion Analysis and its associated WPNCS governance meeting (Scorby)                      | Continues NCSP leadership in excursion analysis methods and fosters continued collaboration with international partners to improve NCSP excursion analysis capabilities for supporting criticality safety applications. |
| OECD NEA<br>Paris, France<br><br>MEETING<br>CANCELLED | Sep-15 | LLNL                        | Participate in the Expert Group meeting on Burn-up Credit and its associated WPNCS (and ICSBEP) governance meeting (Heinrichs, Percher) | Continues NCSP leadership in Monte Carlo methods and fosters continued collaboration with international partners to test and improve NCSP AM capabilities for supporting criticality safety applications.               |
| AWE<br>Aldermaston,<br>UK<br><br>MEETING<br>CANCELLED | TBD    | LLNL                        | Coordinate International Collaboration Efforts (Heinrichs, Scorby)  | Allows LLNL to discuss International Collaboration efforts that must be done in person (i.e., determining material or equipment that needs transporting, etc.).   |



## **NCSP Foreign Travel Trip Reports**

**[Foreign Travel FY2013](#)**

**[Foreign Travel FY2014](#)**

**[Foreign Travel FY2015](#)**



# Example: Foreign Travel Trip Report

**OAK RIDGE NATIONAL LABORATORY  
MANAGED BY UT-BATTELLE, LLC  
POST OFFICE BOX 2008, OAK RIDGE, TENNESSEE 37831-6285**

**ORNL  
FOREIGN TRIP REPORT  
TA 366866**

**DATE:** March 26, 2015

**SUBJECT:** Report of Foreign Travel to Geel, Belgium – Klaus H. Guber, Reactor and Nuclear Systems Division

**TO:** Jerry N. McKamy, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511/GTN, 1000 Independence Ave., SW, Washington, DC 20585-1290

**FROM:** Klaus H. Guber

**MEETING:  
TITLE** N/A

**MEETING:  
LOCATION** Institute for Reference Materials and Measurements (IRMM), Geel, Belgium

**MEETING:  
DATES** 10/10/2014 – 10/31/2014 and 11/9/2017 – 11/21/2014

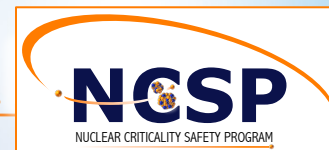
**ATTENDEES:  
ON BEHALF  
OF NCSP** Klaus H. Guber

**MEETING:  
BENEFIT TO  
NCSP** Dr. Guber is a nuclear data specialist who has experience in nuclear data measurements, and he traveled to Geel, Belgium to perform neutron cross-section measurements using the Geel Electron Linear Accelerator (GELINA) at IRMM. The measurements have been performed in accordance with the Nuclear Criticality Safety Program (NCSP) Five Year Plan, and the measurements provide needed nuclear data for the NCSP.

## **Added Non-NCSP Work for Others (WFO) Products data for work done at NCERC for FY13-15**

- To easily demonstrate (at a glance) and defend the value of NCERC, for work done for other entities not funded by NCSP
- To potentially gain NEW WFOs business at NCERC

## NON-NCSP WORK FOR OTHERS (WFO) PRODUCTS AT NCERC



The links below contain forms that document non-NCSP WFOs work performed at NCERC over the last three years (FY2013-FY2015). The forms contain only basic data. If there is a need to know additional information regarding WFOs work performed, please contact Jamie Sweers at [jsweers@lanl.gov](mailto:jsweers@lanl.gov).

| WFO FORM NUMBER         | WORK TITLE                           | MACHINE | YEAR |
|-------------------------|--------------------------------------|---------|------|
| <a href="#">WFO 232</a> | OP SIS                               | N/A     | 2012 |
| <a href="#">WFO 233</a> | Material Operations                  | N/A     | 2012 |
| <a href="#">WFO 241</a> | Comet Foil Irradiation               | COMET   | 2012 |
| <a href="#">WFO 242</a> | Dry Run                              | N/A     | 2014 |
| <a href="#">WFO 243</a> | Foil Counting (NCNS)                 | Godiva  | 2013 |
| <a href="#">WFO 248</a> | ER Training (FBI Course)             | N/A     | 2013 |
| <a href="#">WFO 255</a> | Dry Run                              | N/A     | 2014 |
| <a href="#">WFO 275</a> | Quarterly N-Pod Certifications       | N/A     | 2013 |
| <a href="#">WFO 276</a> | LANL Godiva Modeling and Experiments | Godiva  | 2014 |
| <a href="#">WFO 280</a> | RTO Operations                       | N/A     | 2014 |
| <a href="#">WFO 281</a> | Flatop NCNS Foil Irradiation         | FLATTOP | 2014 |
| <a href="#">WFO 282</a> | DoD Advance Testing                  | N/A     | 2014 |
| <a href="#">WFO 284</a> | NA-42 Measurements                   | N/A     | 2014 |
| <a href="#">WFO 287</a> | ER Criticality Class                 | N/A     | 2014 |
| <a href="#">WFO 288</a> | NA-42 Measurements                   | N/A     | 2014 |
| <a href="#">WFO 289</a> | MC-15 Measurements                   | N/A     | 2014 |
| <a href="#">WFO 291</a> | DTRA Measurements                    | N/A     | 2014 |
| <a href="#">WFO 322</a> | Tumbleweed Support                   | N/A     | 2015 |
| <a href="#">WFO 324</a> | Radiography                          | N/A     | 2015 |
| <a href="#">WFO 328</a> | ER Diagnostic Challenge              | N/A     | 2015 |
| <a href="#">WFO 331</a> | NEC/CXT Measurements                 | N/A     | 2015 |
| <a href="#">WFO 333</a> | N-Pod Certifications                 | N/A     | 2015 |
| <a href="#">WFO 334</a> | NA-42 Measurements                   | N/A     | 2015 |
| <a href="#">WFO 335</a> | Comet Operation (JAEA COLL)          | COMET   | 2015 |
| <a href="#">WFO 394</a> | ER Class                             | N/A     | 2015 |

- [LA-UR-16-21419 - Release for WFOs 232-394](#)

# ***LANL DC (redacted) to be Distributed to NCSP WEBSITE***

**Los Alamos National Laboratory's NCERC Non-NCSP Work Products  
Datasheet collection for Years 2012-2015 (Redacted)**

**Assembled by**

**William L. Myers (NEN-2) and Donnette Lewis (NEN-6)**

**To be distributed back to the Nuclear Criticality Safety Program (NCSP)  
Sponsor for inclusion in NCSP Database**

**February 2016**

**LA-UR-16-21419**

## NCERC NON-NCSP WORK PRODUCTS

|  |            |                |     |
|--|------------|----------------|-----|
| <b>Date:</b>   | 01/12/2016 | <b>IER No:</b> | 232 |
| <b>Work Title:</b>   | OPSIS      |                |     |
| <b>Machine:</b>  | NA         |                |     |
| <b>Description of Work Product</b>   |            |                |     |
| <p>Provided multiple inspection objects for NA-82. This customer was successful in obtaining the desired information, training, and/or experience.</p> |            |                |     |
| <b>Planned Work Start Date:</b>  | 12/10/2012 |                |     |
| <b>Actual Work Start Date:</b>   | 12/10/2012 |                |     |
| <b>Planned Work Completion Date:</b>   | 02/13/2013 |                |     |
| <b>Actual Work Completion Date:</b>  | 02/13/2013 |                |     |



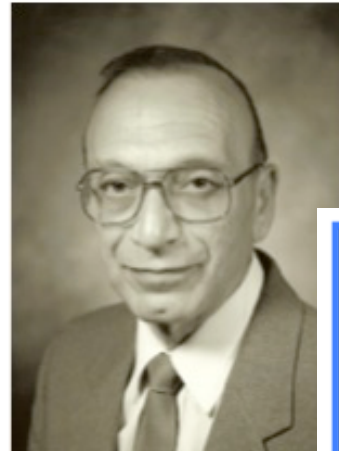
**Added** Memorials for our friends and colleagues

# IN MEMORIAM

**Founding Fathers**  
**Adolf Garcia**



**Experimentalists**  
**Joseph T. Thomas**



**Contributors**  
**Richard D. McKnight**



**Added** New information page for the annual NCSP TPR

## ***Coming soon...***

- New, modern searchable database for archived documents
- Merging current databases into one retrieval system
- ‘Face lift’, new look and modernization tools for our NCSP website